June 24, 2016

MEMORANDUM FOR: Distribution Email

FROM: Christine Caruso Magee
                                   Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for
                                   CPC, OPC, and WPC

Climate Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of June 27, 2016:

None

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of June 27, 2016 may affect CPC:

RFC #2045 – IDP-GIS v1.1 - Add new dynamic services from NOS/CO-OPS, CPC, WPC, Southern Region's River Forecast Center, and update NDFD_temp service on IDP-GIS Web Services tier. To be implemented on June 28 at 1400Z.

The following NCO RFCs are in progress and may affect CPC:

RFC #1980 – For WCOSS Phase 1, update the firmware on the DCS3700 storage *p1, *d1, *d2, and *mv. This work will require a 14-20 hour outage. Implementation began June 8 at 1200Z on Tide. This work should be completed on both WCOSS systems by July 31.

Ocean Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of June 27, 2016:

RFC #676 – monitor_procs.pl v2016.06.27 - Update OPC's process monitoring script to account for long-running ESTOFS routines to 5 hours. Normal run times are 4 to 4.5 hours. This change will reduce unnecessary emails to OAB. To be implemented on June 27 at 1230Z.

RFC #677 – check_computer_health.csh v2016.06.27 - Update notification thresholds for disk space usage to ensure OAB support staff is notified as needed. To be implemented on June 27 at 1230Z.

RFC #678 – NA_cleanup.opc.csh v2016.06.27 - Add a new purge rule for JASON3 data (30 day retention). This was mistakenly overlooked when the data was turned on a few months ago. To be implemented on June 27 at 1230Z.

RFC #679 – ltng_grid.pl v2016.06.27 – Update script 'ltng_grid.pl' to avoid attempting to send grids unless they are created, and notify OAB when 15 or 30 min grids are not created. Make additional minor code improvements. To be implemented on June 27 at 1300Z.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of June 27, 2016 may affect OPC:

RFC #2060 – MRMS v10.5.1 - The w2alg configuration needs to be further updated on mrms-ak, mrms-hi and mrms-trop VMs to provide additional coverage when the radars are in clear air mode. This update will ensure users receive additional radar data. The developers provided an updated configuration file that has been vetted in the MRMS QA tier. W2alg is the main script that is used to start and stop MRMS processes across the MRMS VMs. To be implemented on June 27 at 1300Z.

RFC #2062 – ens_tracker v1.1.8 - The tropical cyclone (TC) tracker jobs will move to using the upgraded half-degree NAVGEM and quarter-degree ECMWF data. This will provide improved TC intensity forecast guidance. The ECMWF and CMC tracker jobs will also be updated to increase the distance threshold between the 850 mb vorticity and MSLP centers from 323 km to 400 km to permit a wider range of developing storms to be tracked in cases where the model representation is initially weak. The 400 km threshold has been tested and is currently in use for the GFS. This change will update the ECMWF and CMC thresholds to match the current GFS threshold. To be implemented on June 28 at 1330Z.

The following NCO RFCs are in progress and may affect OPC:

RFC #1980 – For WCOSS Phase 1, update the firmware on the DCS3700 storage *p1, *d1, *d2, and *mv. This work will require a 14-20 hour outage. Implementation began June 8 at 1200Z on Tide. This work should be completed on both WCOSS systems by July 31.

Weather Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of June 27, 2016:

None

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of June 27, 2016 may affect WPC:

RFC #2045 – IDP-GIS v1.1 - Add new dynamic services from NOS/CO-OPS, CPC, WPC, Southern Region's River Forecast Center, and update NDFD_temp service on IDP-GIS Web Services tier. To be implemented on June 28 at 1400Z.

RFC #2060 – MRMS v10.5.1 - The w2alg configuration needs to be further updated on mrms-ak, mrms-hi and mrms-trop VMs to provide additional coverage when the radars are in clear air mode. This update will ensure users receive additional radar data. The developers provided an updated configuration file that has been vetted in the MRMS QA tier. W2alg is the main script that is used to start and stop MRMS processes across the MRMS VMs. To be implemented on June 27 at 1300Z.

RFC #2062 – ens_tracker v1.1.8 - The tropical cyclone (TC) tracker jobs will move to using the upgraded half-degree NAVGEM and quarter-degree ECMWF data. This will provide improved TC intensity forecast guidance. The ECMWF and CMC tracker jobs will also be updated to increase the distance threshold between the 850 mb vorticity and MSLP centers from 323 km to 400 km to permit a wider range of developing storms to be tracked in cases where the model representation is initially weak. The 400 km threshold has been tested and is currently in use for the GFS. This change will update the ECMWF and CMC thresholds to match the current GFS threshold. To be implemented on June 28 at 1330Z

RFC #2064 – Allow SSH traffic from the WPC servers sfc, fop, and back1 to the external website bigdogii.pams.ncsu.edu. To be implemented on June 28 at 1500Z.

The following NCO RFCs are in progress and may affect WPC:

None

Please note that security-related RFCs are never listed in the RFC memo.

---- OPERATIONAL ANNOUNCEMENTS ----

1. The CPC/OPC/WPC Configuration Management documents are available at
   https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/.

   Please review these documents if you have questions prior to
   submitting changes for CPC/OPC/WPC configurable items.

2. Users who wish to view their network utilization via the Scrutinizer
    appliance may request access from NCO/IWSB. Please send an
    account request to the NCWCP Helpdesk at
    NCWCP.helpdesk@noaa.gov.